

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS:

1-26. (CANCELLED).

27. (CURRENTLY AMENDED) A recording medium, comprising:
first area for storing control information required basically for recording or reproducing user data; and
second area for storing copy protection information for use in generating or processing copy protected user data, the copy protection information ~~being formed as a wobbled pattern and~~ being repeated in a specific data-unit units,
wherein the control information in the first area and the copy protection information in the second area are recorded separately, data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit, and at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is formed as a wobbled pattern in the second area.

28. (PREVIOUSLY PRESENTED) The recording medium according to claim 27, wherein the copy protection information is key information for use in encrypting/decrypting the user data.

29. (CANCELLED).

30. (PREVIOUSLY PRESENTED) The recording medium according to claim 27, wherein the first area further includes indicating information for indicating whether the recording medium contains the copy protection information, the indication information being formed as a wobbled pattern.

31. (CURRENTLY AMENDED) The recording medium according to claim 27, wherein ~~the specific data unit~~ the at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is within a lead-in area of the recording medium.

32. (PREVIOUSLY PRESENTED) The recording medium according to claim 30, wherein the indicating information and/or the copy protection information are recorded by phase modulated method.

33. (CURRENTLY AMENDED) The recording medium according to claim 27, wherein the copy protection information is stored alternatively in another area different from the second area.

34. (CURRENTLY AMENDED) The recording medium according to claim 27, wherein the data structure of the copy protection information in the first specific data unit is ~~recorded in at least first data frame within one or more address units~~ different from the data structure of the copy protection information in the second specific data unit with respect to a modulation method.

35. (CURRENTLY AMENDED) A method of recording data on a recording medium, comprising:

recording control information required basically for recording or reproducing user data in a first area; and

recording copy protection information for use in generating or processing copy protected user data in another area different from a second area, the step of recording copy protection information comprising copying the copy protection information from the second area to said another area, the copy protection information in the second area being formed as a wobbled pattern and being repeated in a specific data ~~unit~~ units,

wherein the control information in the first area and the copy protection information in the second area are recorded separately, and data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit in the second area.

36. (CURRENTLY AMENDED) The method according to claim 35, further comprising:

recording indicating information for indicating whether the recording medium contains the copy protection information in the first area ~~the indication information being formed as a wobbled pattern.~~

37. (CURRENTLY AMENDED) The method according to claim 35, wherein ~~the specific data unit is~~ the step of recording the copy protection information comprises recording the copy protection information in another area within a lead-in area of the recording medium.

38. (PREVIOUSLY PRESENTED) The method according to claim 36, wherein the indicating information and/or the copy protection information are recorded by phase modulated method.

39. (CANCELLED).

40. (CURRENTLY AMENDED) The method according to claim 35, ~~wherein the copy protection information is recorded in at least first data frame within one or more address units~~ the data structure of the copy protection information in the first specific data unit is different from the data structure of the copy protection information in the second specific data unit with respect to a modulation method.

41-53 (CANCELLED).

54. (PREVIOUSLY PRESENTED) The recording medium according to claim 27, further comprising:

third area provided between the first area and the second area, the third area being used for transition between the first area and the second area.

55. (CANCELLED).

56. (CURRENTLY AMENDED) A method of reproducing data from a recording medium, comprising:

reading control information required basically for reproducing user data

from a first area; and

detecting copy protection information for use in processing ~~copy protected~~ user data from a second area, the copy protection information being formed as a wobbled pattern and being repeated in a specific data ~~unit~~units,

wherein the control information in the first area and the copy protection information in the second area are recorded separately, ~~and~~

data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit, and

at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is formed as a wobbled pattern in the second area.

~~Processing the copy protected user data based on the control information and the copy protection information.~~

57. (CURRENTLY AMENDED) The method according to claim 56, wherein ~~the specific data unit is within~~ the step of detecting includes detecting the copy protection information from a lead-in area of the recording medium.

58. (CURRENTLY AMENDED) The method according to claim 56, further comprising:

detecting indicating information for indicating whether the recording medium contains the copy protection information from the first area, the indication information being formed as a wobbled pattern, wherein the copy protected information is detected ~~according to~~ based on the indicating information.

59. (PREVIOUSLY PRESENTED) The method according to claim 58, wherein the detecting step detects the copy protection information and the indicating information by a push-pull method.

60. (CURRENTLY AMENDED) The method according to claim 56, wherein further comprising:

processing the user data based on the control information and the copy protection information ~~a third area is assigned between the first area and the second area, the third area being used for transition between the first area and the second area.~~

61. (CURRENTLY AMENDED) The method according to claim ~~56~~59, wherein the step of processing includes decrypting a copy protected user data ~~the copy protection information is recorded in at least first data frame within one or more address units.~~

62. (CURRENTLY AMENDED) An apparatus for reproducing data from a recording medium, comprising:

a detection unit configured to detect control information required basically for reproducing user data from a first area and copy protection information for use in processing ~~copy protected~~ user data from a second area, wherein the detection unit is configured to detect the copy protection information formed repeatedly ~~and as a wobbled pattern from a~~ in at least one of specific data unit~~units, wherein data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit, at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is formed as a wobbled pattern in the second area and the control information in the first area and the copy protection information in the second area are recorded separately; and~~

~~a data processor configured to process the copy protected user data read based on the control information and the copy protection information~~ a controller configured to control the detection unit to detect the control information from the first area and the copy protection information from the second area.

63. (CURRENTLY AMENDED) The apparatus according to claim 62, wherein the detection unit is configured to read the specific data ~~unit~~units within a lead-in area of the recording medium to detect the copy protection information, according to the control of the controller.

64. (CURRENTLY AMENDED) The apparatus according to claim 62, wherein the detection unit is further configured to detect indicating information for indicating whether the recording medium contains the copy protection information from the first area, the indication information being formed as a wobbled pattern.

65. (PREVIOUSLY PRESENTED) The apparatus according to claim 64, wherein the detection unit is configured to detect the copy protection information and the indication information by a push-pull method.

66. (CANCELLED)

67. (NEW) The apparatus according to claim 62, further comprising:
a data processor configured to process the user data read based on the control information and the copy protection information.